

ABSTRACT

The invention provides dispersoids having metal-oxygen groups which are suitable for the production of metal oxide thin-films at a low temperature of 200°C or below and for the production of homogeneous organic-inorganic hybrid materials. The invention also provides metal oxide thin-films and organic-inorganic hybrid materials endowed with various capabilities, particularly organic-inorganic hybrid materials having a high refractive index and high transparency.

Use is made of a dispersoid having metal-oxygen bonds which is obtained by mixing a metal compound having at least three hydrolyzable groups with at least 0.5 mole but less than 2 moles of water per mole of the metal compound in an organic solvent, in the absence of an acid, a base and/or a dispersion stabilizer, and at a temperature at or below the temperature at which the metal compound begins to hydrolyze, then raising the temperature to at least the temperature at which hydrolysis begins.